PES2UG22CS011_LAB_8
Cloud Computing

```
2025-03-10 09:53:13.216+0000 [id=52]    INFO    jenkins.InitReactorRunner$1#onAttained: Configuration for all jobs updated
2025-03-10 09:53:13.261+0000 [id=68]    INFO    hudson.util.Retrier#start: Attempt #1 to do the action check updates server
2025-03-10 09:53:13.748+0000 [id=37]    INFO    jenkins.install.SetupWizard#init:

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Jenkins initial setup is required. An admin user has been created and a password generated.
Please use the following password to proceed to installation:

39d38153af4c4a0caabab6daef407c51

This may also be found at: /var/jenkins_home/secrets/initialAdminPassword

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2025-03-10 09:53:30.010+0000 [id=37]    INFO    jenkins.InitReactorRunner$1#onAttained: Completed initialization
2025-03-10 09:53:30.030+0000 [id=25]    INFO    hudson.lifecycle.Lifecycle#onReady: Jenkins is fully up and running
2025-03-10 09:53:30.323+0000 [id=68]    INFO    h.m.DownloadService$Downloadable#load: Obtained the updated data file for hudson.tasks.Mav
```

Console Output

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```
Started by user Aathil Nishad
Running as SYSTEM
Building in workspace /var/jenkins_home/workspace/PES2UG22CS011-1
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/Achlys2004/PES2UG22CS011_JENKINS.git
 > git init /var/jenkins_home/workspace/PES2UG22CS011-1 # timeout=10
Fetching upstream changes from https://github.com/Achlys2004/PES2UG22CS011_JENKINS.git
 > git --version # timeout=10
 > git --version # 'git version 2.39.5'
 > git fetch --tags --force --progress -- https://github.com/Achlys2004/PES2UG22CS011_JENKINS.git +refs/heads/*:refs/remotes/origin/* # timeout=10
 > git config remote.origin.url https://github.com/Achlys2004/PES2UG22CS011_JENKINS.git # timeout=10
 > git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
Seen branch in repository origin/main
Seen 1 remote branch
 > git show-ref --tags -d # timeout=10
Checking out Revision 38236e833acac87e690ad29a26885356fd82f2a8 (origin/main)
 > git config core.sparsecheckout # timeout=10
 > git checkout -f 38236e833acac87e690ad29a26885356fd82f2a8 # timeout=10
Commit message: "Adding the Ta folder"
First time build. Skipping changelog.
[PES2UG22CS011-1] $ /bin/sh -xe /tmp/jenkins7838061791229135827.sh
+ make -C main
make: Entering directory '/var/jenkins_home/workspace/PES2UG22CS011-1/main'
g++ hello.cpp -o hello_exec
make: Leaving directory '/var/jenkins_home/workspace/PES2UG22CS011-1/main'
Finished: SUCCESS
```

Jenkins   🔍 🛡1 Aathil Nishad ∨   ⏏ log out

Dashboard >

+ New Item   ✏ Add description

🗂 Build History

⚙ Manage Jenkins   All +

☐ My Views

S	W	Name ↓	Last Success	Last Failure	Last Duration	
✓	☀	PES2UG22CS011-1	3 min 26 sec #1	N/A	5.2 sec	▷

Build Queue   ∨   Icon: S M L

No builds in the queue.

Build Executor Status   0/2 ∨   000

```
 > git fetch --tags --force --progress -- https://github.com/Achlys2004/PES2UG22CS011_JENKINS.git +refs/
timeout=10
Seen branch in repository origin/main
Seen 1 remote branch
 > git show-ref --tags -d # timeout=10
Checking out Revision 38236e833acac87e690ad29a26885356fd82f2a8 (origin/main)
 > git config core.sparsecheckout # timeout=10
 > git checkout -f 38236e833acac87e690ad29a26885356fd82f2a8 # timeout=10
Commit message: "Adding the Ta folder"
 > git rev-list --no-walk 38236e833acac87e690ad29a26885356fd82f2a8 # timeout=10
[PES2UG22CS011-1] $ /bin/sh -xe /tmp/jenkins3711263278616323073.sh
+ make -C main
make: Entering directory '/var/jenkins_home/workspace/PES2UG22CS011-1/main'
make: 'hello_exec' is up to date.
make: Leaving directory '/var/jenkins_home/workspace/PES2UG22CS011-1/main'
Triggering a new build of PES2UG22CS011-2
Finished: SUCCESS
```

✅ Console Output

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```
Started by upstream project "PES2UG22CS011-1" build number 5
originally caused by:
 Started by user Aathil Nishad
Running as SYSTEM
Building in workspace /var/jenkins_home/workspace/PES2UG22CS011-2
[PES2UG22CS011-2] $ /bin/sh -xe /tmp/jenkins6074963499431700219.sh
+ cd /var/jenkins_home/workspace/PES2UG22CS011-1/main/
+ ./hello_exec
Hello, World
Hello, Jenkins
I have successfully built and run this
Finished: SUCCESS
```

✅ Console Output

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```
Started by GitHub push by Achlys2004
Running as SYSTEM
Building in workspace /var/jenkins_home/workspace/PES2UG22CS011-1
The recommended git tool is: NONE
No credentials specified
 > git rev-parse --resolve-git-dir /var/jenkins_home/workspace/PES2UG22CS011-1/.git # timeout=10
Fetching changes from the remote Git repository
 > git config remote.origin.url https://github.com/Achlys2004/PES2UG22CS011_JENKINS.git # timeout=10
Fetching upstream changes from https://github.com/Achlys2004/PES2UG22CS011_JENKINS.git
 > git --version # timeout=10
 > git --version # 'git version 2.39.5'
 > git fetch --tags --force --progress -- https://github.com/Achlys2004/PES2UG22CS011_JENKINS.git +refs/heads/*:refs/remotes/origin/* # timeout=10
Seen branch in repository origin/main
Seen 1 remote branch
 > git show-ref --tags -d # timeout=10
Checking out Revision 16f1c0ccaa9398074db742fe99ee81d611c90d02 (origin/main)
 > git config core.sparsecheckout # timeout=10
 > git checkout -f 16f1c0ccaa9398074db742fe99ee81d611c90d02 # timeout=10
Commit message: "Changed hello.cpp 2"
 > git rev-list --no-walk 38236e833acac87e690ad29a26885356fd82f2a8 # timeout=10
[PES2UG22CS011-1] $ /bin/sh -xe /tmp/jenkins18279816842453120378.sh
+ make -C main
make: Entering directory '/var/jenkins_home/workspace/PES2UG22CS011-1/main'
g++ hello.cpp -o hello_exec
make: Leaving directory '/var/jenkins_home/workspace/PES2UG22CS011-1/main'
Triggering a new build of PES2UG22CS011-2
Finished: SUCCESS
```

Pipeline

Define your Pipeline using Groovy directly or pull it from source control.

Definition

Pipeline script ▾

Script ?

```
1 ▾ pipeline {
2       agent any
3
4 ▾     stages {
5 ▾         stage('Hello') {
6 ▾             steps {
7                   echo 'Hello World'
8                 }
9             }
10        }
11    }
12
```

Hello World ▾

☑ Use Groovy Sandbox ?

```
[Pipeline] { (Build)
[Pipeline] script
[Pipeline] {
[Pipeline] sh
+ g++ main/hello.cpp -o main/hello
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] script
[Pipeline] {
[Pipeline] sh
+ ./main/hello
Hello, World
Hello, Jenkins
My Name is Aathil
I have successfully built and run this
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Deploy)
[Pipeline] echo
Deployment Stage: No actual deployment in this lab.
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

```
[Pipeline] {
[Pipeline] sh
+ g++ random.cpp -o main/hello
cc1plus: fatal error: random.cpp: No such file or directory
compilation terminated.
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
Stage "Test" skipped due to earlier failure(s)
[Pipeline] getContext
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Deploy)
Stage "Deploy" skipped due to earlier failure(s)
[Pipeline] getContext
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] echo
Pipeline failed!
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
ERROR: script returned exit code 1
Finished: FAILURE
```